


Appendix F

Tulelake Irrigation District

**CBDNet**


CBD Search Results


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Search Database:


CBD - Archive of Notices


For: "CANAL LINING MATERIALS"**Total Hits: 40**


- [1]
CBD [Posted May 21, 2001]: 84--COLD WEATHER GEAR 
Size: 12881 bytes, Relevance Score: 1000

- [2]
CBD [Posted June 2, 2000]: A--MATERIALS PROGRAM 
Size: 11373 bytes, Relevance Score: 816

- [3]
CBD [Posted January 13, 1999]: 61--MPA TOWER LIGHTING PROJECT 
Size: 12402 bytes, Relevance Score: 805

- [4]
CBD [Posted June 25, 2001]: 99--CANAL LINING MATERIAL 
Size: 9905 bytes, Relevance Score: 644

- [5]
CBD [Posted June 25, 2001]: 99--CANAL LINING MATERIAL 
Size: 9905 bytes, Relevance Score: 644

- [6]
CBD [Posted October 13, 1999]: 84--OXFORD SHOES 
Size: 5749 bytes, Relevance Score: 635

[Commerce Business Daily: Posted in CBDNet on June 25, 2001]
[Printed Issue Date: June 27, 2001]
From the Commerce Business Daily Online via GPO Access
[\[cbdnet.access.gpo.gov\]](http://cbdnet.access.gpo.gov)

PART: U.S. GOVERNMENT PROCUREMENTS
SUBPART: SUPPLIES, EQUIPMENT AND MATERIAL
CLASSCOD: 99--Miscellaneous
OFFADD: U.S. Bureau of Reclamation, Mid-Pacific Region, Attention:
MP-3810, 2800 Cottage Way, Room E-1815, Sacramento, CA 95825-1898
SUBJECT: 99--**CANAL LINING MATERIAL**
SOL 01SQ202159
DUE 072401

POC Ms. Debra Keith (916) 978-5135

DESC: (i) This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in the Federal Acquisition Regulation (FAR) 12.6, as supplemented with additional information included in this notice. This announcement constitutes the only solicitation; proposals are being requested and a written solicitation will not be issued. PAPER COPIES OF THIS SOLICITATION WILL NOT BE AVAILABLE. The solicitation will be issued on the World Wide Web and can be found at the following web site: FedBizOpps.Gov. (ii) Solicitation 01SQ202159 is issued as a Request for Quote (RFQ). Written documentation will not be issued for this quote. (iii) The solicitation is being conducted under Simplified Acquisition Procedures (SAP) FAR Part 12 and 13. The solicitation document, incorporated provisions and clauses are those that are in effect through Federal Acquisition Circular (FAC) 97-24 and Defense Federal Acquisition Regulation Supplement, Defense Change Notice (DCN) 20001213. It is the contractors responsibility to be familiar with applicable clauses and provisions. (iv) This acquisition will be 100% small business set-aside. The North American Industrial Classification (NAIC) Code is 561621 with a size standard \$11.5M. (v) The Bureau of Reclamation has a requirement to improve **canal** efficiencies. Seepage losses in canals can range from 10 to 50 percent of their irrigation water, with the most severe (angular) soil conditions accounting for the highest seepage rates and the most challenging design. Much of this seepage water is lost to beneficial use. **Canal-lining** technologies are needed that can minimize seepage losses at reasonable costs. Low-tech **lining** systems that can be installed by irrigation districts offer the most promise. Material will be subject to UV exposure, animals, and other natural elements. Reclamation is seeking proposals from material suppliers to provide geomembrane, geotextile cushion, and on-site technical assistance for installation and seaming. The Tulalake Irrigation District (District) will perform subgrade preparation and installation, and seaming that they are qualified to undertake. The contractor shall provide seaming equipment and shall perform all seaming that is normally performed by personnel specially trained and certified for such work. The installation and seaming work that the District is qualified to perform will be performed by 10 laborers working a normal work week of four days in 10 hour shifts. (vi) The M-2 Lateral **lining** reach starts Sta. 2+50 and extends to Sta. 121+92 (2.3 miles) and is about 30 feet wide. The lower reach has some small rocky outcrops which may require a geotextile for cushioning. The price quote for this procurement shall be divided into the following commercial items, Contract Line item number (CLIN) - CLIN 0001 **Canal Lining Material** 400,000 square feet. The maximum panel size shall be limited to 30 feet by 200 feet and the minimum ?mil? thickness of the geomembrane shall be 45 mils; CLIN 0002 Geotextile 100,000 square feet with a minimum weight of 10 oz/yd2; CLIN 0003 Seaming Equipment,

The geomembrane manufacturer shall provide two (2) new seaming machines for installation and repairs; CLIN 0004 Geomembrane Lifting Bar, The geomembrane manufacturer shall supply a lifting bar which will be returned to the contractor by January 1, 2002. CLIN 0005 Geomembrane Manufacturer Seaming Technicians, The geomembrane manufacturer may bid on providing its own seaming experts, but must still provide training to Reclamation for repairs and provide equipment to do so. Contractor's proposals which provide for their own specialized staff to perform seaming work shall be required to abide by the requirements of the U.S. Bureau of Reclamation's Safety and Health Standards; CLIN 0006 Technical Expert, The geomembrane manufacturer will provide a minimum of four (4) to five (5) days of on-site technical assistance for installation, seaming and making repairs; (vii) Delivery: Date of delivery of **materials** shall be by NLT October 01, 2001. Delivery will be quoted as FOB Destination to 2717 Havlina Rd., Tulalake, CA, 96134. (viii) The following FAR provisions and clauses are applicable to this procurement: 52.212-1, Instructions to Offerors - Commercial Items (OCT 2000) is hereby incorporated by reference. Site visit: Prospective Contractors are strongly advised to attend the site visit scheduled for July 17, 2001 @ 10:00 AM, Tulalake Irrigation District, 2717 Havlina Rd, Tulalake, CA 96134. Coordination must be done with POC Jerry Townsend, 514-883-6935, in advance of site visit to identify visitors by name. Site for installation will be addressed during the site visit and a question and answer session will be conducted at the end of the site visit. Offers must be itemized and individually priced according to CLIN numbers and include legible descriptive literature for items for evaluation purposes. (ix) Solicitation provision at FAR 52.212-2, Evaluation - Commercial Items (JAN 1999), is hereby incorporated by reference. Evaluation - Commercial Items (JAN 1999) (a) The Government will award a purchase order resulting from this solicitation to the responsible offeror whose offer, conforming to the solicitation, will be the most advantageous to the Government, price and other factors considered. The Government intends to evaluate quotes and award a contract without discussions with offerors. The Government reserves the right to conduct discussions if the Contracting Officer later determines them to be necessary. Evaluation factors other than cost or price when combined are approximately equal to cost or price. The following evaluation factors shall be used to evaluate offers: (i) technical capability - (a) ease of installation (b) damage resistance (c) ease of repair (d) expected life (e) seepage control; and descriptive literature of the items offered to meet the government requirement, (ii) past performance, and (iii) price. The Government reserves the right to evaluate technical compliance and price to make a best value decision. This could result in award to other than the lowest price offer. The technical evaluation will consist of reviewing and evaluating technical and price aspects of the contractors proposal. If the offeror fails to provide the descriptive literature, the offeror could be deemed non-responsive and therefore no award made to that contractor. (x) Offerors are reminded to include a completed copy of the provision at 52.212-3, offeror Representations and Certifications--Commercial Items (APR 2001) and 252.212-7000, Offeror Representations and Certifications--Commercial Items (NOV 1995), with his/her offer. A copy of the Certifications and Representations can be found at the following web site: <http://www.arnet.gov>. (xi) Clause 52.212-4, Contract Terms and Conditions- Commercial Items, applies to this acquisition. (xii) Clause 52.212-5 Contract Terms and Conditions Required to Implement Statutes or Executive Orders--Commercial Items (Deviation) applies to this acquisition. The following clauses are applicable to this acquisition: 52.222-3,

Convict Labor; 52.233-3; Protest After Award; 52.232-33; Payment by Electronic Funds Transfer Central Contractor Registration; 52.247-34, F.O.B. Destination; 52.252-2, Clauses Incorporated by Reference; 52.252-6, Authorized Deviation In Clauses; 252.212-7001, Contract Terms and Conditions Required to Implement Statutes or Executive Orders Applicable to Defense Acquisitions Of Commercial Items (Deviation); 252.204-7003, Control of Government Personnel Work Product; 252.204-7004, Required Central Contractor Registration; 52.253-1, Computer Generated Forms; 52.211-17, Delivery of Excess Quantities; 52.222-26, Equal Opportunity; 52.222-35, Affirmative Action For Disabled Veterans and Veterans of the Vietnam Era; 52.222-36, Affirmative Action for Workers With Disabilities; 52.222-37, Employment Reports on Disabled Veterans and Veterans of the Vietnam Era; 52.222-21, Prohibition of Segregated Facilities; 52.222-22, Previous Contracts and Compliance Reports are hereby incorporated by reference. For full text of these clauses refer to <http://arnet.gov/far> (xiii) N/A (xiv) N/A (xv) N/A (xvi) This announcement will close and written quotes are due by July 24 , 2001. Signed and dated offers, to include a complete listing of all items, must be submitted to the Contracting Officer, Bureau of Reclamation, 2800 Cottage Way, RM-E1815, Sacramento, California 95825-1898. Responsible sources may submit a quote which shall be considered. No faxed quotes will be accepted. Should you have any questions regarding this procurement, please phone Debra Keith, Contract Specialist at (916) 978-5135.

LINKURL: [http://ideasec.nbc.gov/ecprod/owa/ecmenu\\$.firstcount/](http://ideasec.nbc.gov/ecprod/owa/ecmenu$.firstcount/)

LINKDESC: For more information

EMAILADD: dkeith@mp.usbr.gov

EMAILDESC: Contract Specialist

CITE: (W-176 SN50P9F3)

Tulelake Irrigation District Lateral M-2 Lining

Question and Answers From July 17, 2001 Site Visit

Firestone

1. Explain the function of the lifting bar.

To allow safe and efficient deployment of heavy, large rolls of geomembrane in the field and from the delivery truck.

2. Where is the delivery destination?

The Tulelake Irrigation District compound at 2717 Havlina Road, Tulelake, California.

3. Is there a max roll weight?

Maximum roll weight is 5,000 pounds.

4. Is the bid for 400,000 sq ft or 2.3 miles, 30 ft wide?

The Government will purchase 400,000 ft² of the geomembrane material. There have been associated questions about whether panel widths greater or lesser than 30 feet would be allowed, how would they be paid for, is there an allowance for overlaps and seams. The Government's need is to line 12,000 lineal feet of canal with panels having a minimum width of 29.5 feet. The specified quantity (400,000 ft²) provides an allowance for overlaps, seams, waste, and various contingencies. The Contractor may propose panel widths not less than 29.5 feet and not greater than 32.0 feet but the proposal must demonstrate that their system will meet the width and lineal foot criteria stated above.

5. Is there a bid form?

Use Standard Form 18.

6. Why was this canal picked from all the canals in the area?

The Governor of Oregon has issued a drought declaration for the area. Funds are available for implementing temporary emergency drought relief measures. The Tulelake Irrigation District has proposed lining this reach of Lateral M-2 because it is a known area of high water losses. Ponding tests will be conducted prior to liner installation so that the effectiveness of the liner can be assessed. The Tulelake Irrigation District is contemplating lining additional reaches in the future.

Colorado Lining International

1. Would it be better if the liner was textured or smooth?

The Government will consider either textured or smooth liners.

C.W. Neal Corp.

1. Type of material?

The Government will consider all geomembrane materials that are normally used in the proposed application. The only additional requirement not identified in the original solicitation is that the geomembrane material must be UV resistant.

2. Is it a reinforced material?

The Government will consider either reinforced or non-reinforced geomembrane materials.

3. Color of material?

The Government will consider all material colors.

4. Any deployment preferences - from the center - or side?

The Government has no preferences in this regard. Please address in your proposal any advantages for deployment. Ease of installation is an evaluation factor.

5. 30 ft wide by 200 ft long max - no seam in the middle?

The only field seams that the irrigation district will perform are seams that are transverse to the canal flow and seams that they are qualified to perform.

Seams "in the middle" we define as seams running parallel to the canal flow. The Government will accept seams "in the middle" if the seams are constructed in the factory, or are performed in the field by machines (e.g. hot wedge welder) by and at the expense of the Contractor.

BAFSCO

1. On bid material is stated to be exposed to UV, no specifications that it must be UV resistant?

All geomembrane materials shall be UV resistant.

COLAS

1. Would a more durable material be acceptable instead of a geotextile cushion in the rocky areas?

Possibly. The Contractor's proposal must demonstrate that the proposed geomembrane system can function in an equivalent manner to the specified geomembrane plus geotextile cushion system.

Watersaver

1. Can factory seams run parallel to the length of the canal?

See answer for C.W. Neal Corp question number 5 above.

2. Is a color for the liner specified?

The Government will consider all material colors.

3. Is there a specification for the liner other than 45 mils and UV stable? Shouldn't the liner be reinforced?

All geomembrane materials shall be UV resistant and minimum 45 mils thickness. The Government will consider either reinforced or non-reinforced geomembrane materials.

4. Is there a bid form or can we use our own quotation form?

Use Standard Form 18.

5. Our width increment is +31 ft. Is it okay to use this width?

See answer for C.W. Neal Corp question number 5 above.

Additional information presented at the site visit

1. Batten strips and mechanical anchorage that may be required at certain locations such as turnouts are NOT to be furnished by the contractor. The Contractor's technical expert (CLIN 0006) shall provide technical assistance on the methods and materials for completing these installations.
2. At the road crossings the geomembranes will be set in anchor trenches rather than

mechanically attached to the crossing structures.

3. A 1.5 to 2.0 wide "ledge" will be excavated on the canal sideslope for anchoring the upper edge of the geomembrane. The ledge will be located approximately one foot above the high water line. The excavated soil will then be placed back on top of the geomembrane.
4. There is a road on both sides of the canal which will be used for completing the installation.

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

TECHNICAL CAPABILITY

The proposal must be technically adequate, proving the material proposed meets the following items:
A. ease of installation, B. damage resistance, C. ease of repair, D. expected life, and E. seepage control.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

A. Ease of Installation 15 Points

(1) Material does not demonstrate ease in handling with normal irrigation district equipment.

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(15) Proposed material clearly shows the ability to be handled by district personnel using their equipment.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

TECHNICAL CAPABILITY

The proposal must be technically adequate, proving the material proposed meets the following items:
A. ease of installation, B. damage resistance, C. ease of repair, D. expected life, and E. seepage control.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

B. Damage Resistance 5 Points

- (1) The material lacks sufficient documentation either through laboratory tests or actual field tests.
- (2)
- (3)
- (4)
- (5) Material clearly has demonstrated through lab testing or field testing it's damage resistance.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

TECHNICAL CAPABILITY

The proposal must be technically adequate, proving the material proposed meets the following items:
A. ease of installation, B. damage resistance, C. ease of repair, D. expected life, and E. seepage control.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

C. Ease of Repair 10 Points

- (1) Proposed material lacks documentation showing its ease of being repair by irrigation districts.
- .
- .
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- .
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- (10) Material has demonstrated its ease of repair through actual documentation of district personnel doing work.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

TECHNICAL CAPABILITY

The proposal must be technically adequate, proving the material proposed meets the following items:
A. ease of installation, B. damage resistance, C. ease of repair, D. expected life, and E. seepage control.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

D. Expected Life 5 Points

- (1) The material lacks documentation to demonstrate a reasonable chance of success.
- (2)
- (3)
- (4)
- (5) Proposed material has a complete history and documentation showing its durability capabilities.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

TECHNICAL CAPABILITY

The proposal must be technically adequate, proving the material proposed meets the following items:
A. ease of installation, B. damage resistance, C. ease of repair, D. expected life, and E. seepage control.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

E. Seepage Control 5 Points

- (1) Material proposed has no documentation showing its seepage resistance.
- (2)
- (3)
- (4)
- (5) Material proposed has shown it's seepage resistance through fully documented studies or testing.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation Worksheet**

Proposal: _____

PAST PERFORMANCE 10 Points

Potential material needs to demonstrate it's experience by showing installations which have the same or similar installation procedures and subgrades.

Determine a numerical rating for this proposal using the two definitions below as representing the opposing extremes of the rating scale. Give your rating to the nearest tenth (i.e., 4.1).

- (1) The proposed material lacks information documentation regarding its capability to be used in this application. No information on previous installations is presented.
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- (10) The material adequately documents its passed performance for this type application. The proposal contains documentation of previous successful installations of its application.

Score: _____

Evaluators' Comments:

**Tulelake Irrigation District Canal Lining Project
Summary of Technical Evaluation**

Proposal: _____

Technical Capability:

A. Ease of Installation _____ out of 15 Points

B. Damage Resistance _____ out of 5 Points

C. Ease of Repair _____ out of 10 Points

D. Expected Life _____ out of 5 Points

E. Seepage Control _____ out of 5 Points

Past Performance: _____ out of 10 Points

Total Technical Points: _____ out of 50 Points

**Tulelake Irrigation District Canal Lining Project
Technical Evaluation - Summary of Proposals**

Evaluation Factor	Proposal 1	Proposal 2	Proposal 3	Proposal 4	Proposal 5
Ease of installation					
Damage resistance					
Ease of repair					
Expected life					
Seepage control					
Past performance					
Total Technical Points					

ESTIMATED SEEPAGE LOSSES FOR THE M-2 LATERIAL¹
(Based on 240 day Irrigation Season)

Tulelake Irrigation District M-2 Lateral Description	Water Depth feet	Side Slope	Bottom width feet	Length feet	Length miles	Constant ² ft ³ /ft ² day	Seepage CFD	Seepage AC-FT/D	Seepage AC-FT/Y
Sta. 2+50 to 22+90 Lined Earth									
Current conditions	4.0	1.0	15.0	2,040	0.4	0.40	21,470	0.49	118
All canal lined ¹	4.0	1.5	12.0	2,040	0.4	0.07	3,770	0.09	22
Sta. 22+90 to 23+90 (Between Hwy Br. and RR Br.)									
Current conditions	4.0	1.0	15.0	100	0.0	0.50	1,320	0.03	7
Sta. 23+90 to 27+34 Culvert									
Current conditions	4.0	1.0	15.0	344	0.1	0.50	4,530	0.10	24
All canal lined	4.0	1.5	12.0	344	0.1	0.07	640	0.01	2
Sta. 27+34 to 28+00 Check									
Current conditions	4.0	1.0	15.0	66	0.0	0.50	870	0.02	5
All canal lined	4.0	1.5	12.0	66	0.0	0.07	120	0.00	0
Sta. 28+00 to 74+48									
Current conditions	4.0	1.0	15.0	4,648	0.9	0.65	79,500	1.83	439
All canal lined	4.0	1.5	12.0	4,648	0.9	0.07	8,600	0.20	48
Sta. 74+48 to 121+92									
Current conditions	4.0	1.0	15.0	4,744	0.9	0.80	99,870	2.29	550
All canal lined	4.0	1.5	12.0	4,744	0.9	0.07	8,770	0.20	48
				11,942	2.3		Before Lining		1,143.0
							After Lining		120.0
							Total Savings		1,023.0

¹ The M-2 Lateral was lined with Firestone Building Products Co. - 45-mil EPDM RubberGard on Oct. 3-21, 2001.

² A seepage constant of 0.07 (new concrete) was used which would allow for some seepage around structures.